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(54) **PRODUCTION OF SINTERED BODY**

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a method for producing a sintered body, enabling the production of the homogeneous sintered article hardly having sintering defects on the discharge plasma sintering.

SOLUTION: This method for producing a sintered body comprises preparing a powder material such as ceramic powder as a raw material, isotropically adding a pressure to the powder material by a method such as a hydrostatic pressurization method (CIP, HIP) to pressure-compact the powder material, applying a mechanical processing such as a cutting processing, a grinding processing or a polishing processing to the pressurized powder article to arrange the shape or dimension, and subsequently sintering the processed powder article by a discharge plasma sintering method to obtain the sintered body. The discharge plasma sintering is carried out by filling the pressurized powder in a molding die, pressurizing the filled powder with a pair of molding punches and simultaneously applying electric pulses to the filled material.

Therein, it is preferable that a heat-insulating material is placed between the pressurized powder material and both the molding punches.

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